

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 09/579,543A
Source: 1FW16
Date Processed by STIC: 11/15/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/579,543A

CRF Edit Date: 11/15/06
Edited by: Ar

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

✓
___ Inserted mandatory headings/numeric identifiers, specifically:

(E) COUNTRY: USA in (iv) CORRESPONDENCE ADDRESS: section

___ Moved responses to same line as heading/numeric identifier, specifically:

✓
___ Other: Sequence 2 - corrected amino acid numbering



IFW16

RAW SEQUENCE LISTING

DATE: 11/15/2006

PATENT APPLICATION: US/09/579,543A

TIME: 16:37:06

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11152006\I579543A.raw

SEQUENCE LISTING

```

1 (1) GENERAL INFORMATION:
C--> 3 (i) APPLICANT: Gaugler, B*atrice; Van den Eynde, Benoit; van der Bruggen,
4 Pierre; Boon-Falleur, Thierry
6 (ii) TITLE OF INVENTION: Isolated Nucleic Acid Molecules Coding For Tumor
7 Rejection Antigen Precursor Mage-3 And Uses Thereof
9 (iii) NUMBER OF SEQUENCES: 30
11 (iv) CORRESPONDENCE ADDRESS:
12 (A) ADDRESSEE: Fulbright & Jaworski L.L.P.
13 (B) STREET: 666 Fifth Avenue
14 (C) CITY: New York City
15 (D) STATE: New York
16 (E) COUNTRY: USA
17 (F) ZIP: 10103
19 (v) COMPUTER READABLE FORM:
20 (A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
21 (B) COMPUTER: IBM
22 (C) OPERATING SYSTEM: PC-DOS
23 (D) SOFTWARE: Wordperfect
25 (vi) CURRENT APPLICATION DATA:
C--> 26 (A) APPLICATION NUMBER: US/09/579,543A
C--> 27 (B) FILING DATE: 26-May-2000
28 (C) CLASSIFICATION: 435
C--> 50 (vii) PRIOR APPLICATION DATA:
31 (A) APPLICATION NUMBER: 09/583,850
32 (B) FILING DATE: 30-May-2000
35 (A) APPLICATION NUMBER: PCT/US92/04354
36 (B) FILING DATE: 22-MAY-1992
39 (A) APPLICATION NUMBER: 07/807,043
40 (B) FILING DATE: 12-DECEMBER-1991
43 (A) APPLICATION NUMBER: 07/764,364
44 (B) FILING DATE: 23-SEPTEMBER-1991
47 (A) APPLICATION NUMBER: 07/728,838
48 (B) FILING DATE: 9-JULY-1991
51 (A) APPLICATION NUMBER: 07/705,702
52 (B) FILING DATE: 23-MAY-1991
C--> 54 (viii) ATTORNEY/AGENT INFORMATION:
55 (A) NAME: Hanson, Norman D.
56 (B) REGISTRATION NUMBER: 30,946
57 (C) REFERENCE/DOCKET NUMBER: LUD 5353.5 DIV (10016355)
C--> 59 (ix) TELECOMMUNICATION INFORMATION:
60 (A) TELEPHONE: (212) 688-9200
61 (B) TELEFAX: (212) 838-3884

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/579,543A

DATE: 11/15/2006

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Input Set : A:\PTO.AMC.txt

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C--> 65 (2) INFORMATION FOR SEQ ID NO: 1:

66 (i) SEQUENCE CHARACTERISTICS:

67 (A) LENGTH: 462 base pairs

68 (B) TYPE: nucleic acid

69 (C) STRANDEDNESS: single

70 (D) TOPOLOGY: linear

71 (ii) MOLECULE TYPE: genomic DNA

72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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74 ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT GAAGATCCTG      60
75 ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT CAGCCAATGA GCTTACTGTT      120
76 CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG AAGTTTTCGA AGTTCCGCCT ACAGCTCTAG      180
77 CTTGTGAATT TGTACCCTTT CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC      240
78 CCCCCTCCCA CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT      300
79 AGAACTCTTC CGGAGGAAGG AGGGAGGACC CCCCCTTTT GCTCTCCCAG CATGCATTGT      360
80 GTCAACGCCA TTGCACTGAG CTGGTCGAAG AAGTAAGCCG CTAGCTTGCG ACTCTACTCT      420
81 TATCTTAACT TAGCTCGGCT TCCTGCTGGT ACCCTTTGTG CC                        462

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C--> 84 (2) INFORMATION FOR SEQ ID NO: 2:

85 (i) SEQUENCE CHARACTERISTICS:

86 (A) LENGTH: 675 base pairs

87 (B) TYPE: nucleic acid

88 (C) STRANDEDNESS: single

89 (D) TOPOLOGY: linear

90 (ii) MOLECULE TYPE: genomic DNA

91 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

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93 ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA GGT GGT      48
94 Met Ser Asp Asn Lys Lys Pro Asp Lys Ala His Ser Gly Ser Gly Gly
95           5              10              15
96 GAC GGT GAT GGG AAT AGG TGC AAT TTA TTG CAC CGG TAC TCC CTG GAA      96
97 Asp Gly Asp Gly Asn Arg Cys Asn Leu Leu His Arg Tyr Ser Leu Glu
98           20              25              30
99 GAA ATT CTG CCT TAT CTA GGG TGG CTG GTC TTC GCT GTT GTC ACA ACA     144
100 Glu Ile Leu Pro Tyr Leu Gly Trp Leu Val Phe Ala Val Val Thr Thr
101           35              40              45
102 AGT TTT CTG GCG CTC CAG ATG TTC ATA GAC GCC CTT TAT GAG GAG CAG     192
103 Ser Phe Leu Ala Leu Gln Met Phe Ile Asp Ala Leu Tyr Glu Glu Gln
104           50              55              60
105 TAT GAA AGG GAT GTG GCC TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC     240
106 Tyr Glu Arg Asp Val Ala Trp Ile Ala Arg Gln Ser Lys Arg Met Ser
107 65           70              75              80
108 TCT GTC GAT GAG GAT GAA GAC GAT GAG GAT GAT GAG GAT GAC TAC TAC     288
109 Ser Val Asp Glu Asp Glu Asp Asp Glu Asp Asp Glu Asp Asp Tyr Tyr
110           85              90              95
111 GAC GAC GAG GAC GAC GAC GAC GAT GCC TTC TAT GAT GAT GAG GAT GAT     336
112 Asp Asp Glu Asp Asp Asp Asp Ala Phe Tyr Asp Asp Glu Asp Asp
113           100             105             110
114 GAG GAA GAA GAA TTG GAG AAC CTG ATG GAT GAT GAA TCA GAA GAT GAG     384
115 Glu Glu Glu Glu Leu Glu Asn Leu Met Asp Asp Glu Ser Glu Asp Glu
116           115             120             125
117 GCC GAA GAA GAG ATG AGC GTG GAA ATG GGT GCC GGA GCT GAG GAA ATG     432

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118 Ala Glu Glu Glu Met Ser Val Glu Met Gly Ala Gly Ala Glu Glu Met
119      130      135      140
120 GGT GCT GGC GCT AAC TGT GCC TGT GTT CCT GGC CAT CAT TTA AGG AAG 480
121 Gly Ala Gly Ala Asn Cys Ala Cys Val Pro Gly His His Leu Arg Lys
122 145      150      155      160
123 AAT GAA GTG AAG TGT AGG ATG ATT TAT TTC TTC CAC GAC CCT AAT TTC 528
124 Asn Glu Val Lys Cys Arg Met Ile Tyr Phe Phe His Asp Pro Asn Phe
125      165      170      175
126 CTG GTG TCT ATA CCA GTG AAC CCT AAG GAA CAA ATG GAG TGT AGG TGT 576
127 Leu Val Ser Ile Pro Val Asn Pro Lys Glu Gln Met Glu Cys Arg Cys
128      180      185      190
129 GAA AAT GCT GAT GAA GAG GTT GCA ATG GAA GAG GAA GAA GAA GAA GAG 624
130 Glu Asn Ala Asp Glu Glu Val Ala Met Glu Glu Glu Glu Glu Glu Glu
131      195      200      205
132 GAG GAG GAG GAG GAA GAG GAA ATG GGA AAC CCG GAT GGC TTC TCA CCT 672
133 Glu Glu Glu Glu Glu Glu Glu Met Gly Asn Pro Asp Gly Phe Ser Pro
134      210      215      220
136 TAG 675
C--> 139 (2) INFORMATION FOR SEQ ID NO: 3:
140      (i) SEQUENCE CHARACTERISTICS:
141          (A) LENGTH: 228 base pairs
142          (B) TYPE: nucleic acid
143          (C) STRANDEDNESS: single
144          (D) TOPOLOGY: linear
145      (ii) MOLECULE TYPE: genomic DNA
146      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
148 GCATGCAGTT GCAAAGCCCA GAAGAAAGAA ATGGACAGCG GAAGAAGTGG TTGTTTTTTTT 60
149 TTCCCCTTCA TTAATTTTCT AGTTTTTAGT AATCCAGAAA ATTTGATTTT GTTCTAAAGT 120
150 TCATTATGCA AAGATGTCAC CAACAGACTT CTGACTGCAT GGTGAACTTT CATATGATAC 180
151 ATAGGATTAC ACTTGTTACCT GTTAAAAATA AAAGTTTGAC TTGCATAC 228
C--> 154 (2) INFORMATION FOR SEQ ID NO: 4:
155      (i) SEQUENCE CHARACTERISTICS:
156          (A) LENGTH: 1365 base pairs
157          (B) TYPE: nucleic acid
158          (C) STRANDEDNESS: single
159          (D) TOPOLOGY: linear
160      (ii) MOLECULE TYPE: genomic DNA
161      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
163 ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT 50
164 GAAGATCCTG ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT 100
165 CAGCCAATGA GCTTACTGTT CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG 150
166 AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG CTTGTGAATT TGTACCCCTT 200
167 CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC CCCCCTCCCA 250
168 CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT 300
169 AGAACTCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTTT GCTCTCCAG 350
170 CATGCATTGT GTCAACGCCA TTGCACTGAG CTGGTCGAAG AAGTAAGCCG 400
171 CTAGCTTGCG ACTCTACTCT TATCTTAACT TAGCTCGGCT TCCTGCTGGT 450
172 ACCCTTTGTG CC 462
174 ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA 504

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175 GGT GGT GAC GGT GAT GGG AAT AGG TGC AAT TTA TTG CAC CGG 546
176 TAC TCC CTG GAA GAA ATT CTG CCT TAT CTA GGG TGG CTG GTC 588
177 TTC GCT GTT GTC ACA ACA AGT TTT CTG GCG CTC CAG ATG TTC 630
178 ATA GAC GCC CTT TAT GAG GAG CAG TAT GAA AGG GAT GTG GCC 672
179 TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC TCT GTC GAT GAG 714
180 GAT GAA GAC GAT GAG GAT GAT GAG GAT GAC TAC TAC GAC GAC 756
181 GAG GAC GAC GAC GAC GAT GCC TTC TAT GAT GAT GAG GAT GAT 798
182 GAG GAA GAA GAA TTG GAG AAC CTG ATG GAT GAT GAA TCA GAA 840
183 GAT GAG GCC GAA GAA GAG ATG AGC GTG GAA ATG GGT GCC GGA 882
184 GCT GAG GAA ATG GGT GCT GGC GCT AAC TGT GCC TGT GTT CCT 924
185 GGC CAT CAT TTA AGG AAG AAT GAA GTG AAG TGT AGG ATG ATT 966
186 TAT TTC TTC CAC GAC CCT AAT TTC CTG GTG TCT ATA CCA GTG 1008
187 AAC CCT AAG GAA CAA ATG GAG TGT AGG TGT GAA AAT GCT GAT 1050
188 GAA GAG GTT GCA ATG GAA GAG GAA GAA GAA GAG GAG GAG 1092
189 GAG GAG GAA GAG GAA ATG GGA AAC CCG GAT GGC TTC TCA CCT 1134
190 TAG 1137
191 GCATGCAGTT GCAAAGCCCCA GAAGAAAGAA ATGGACAGCG GAAGAAGTGG 1187
192 TTGTTTTTTTT TTCCCCTTCA TTAATTTTCT AGTTTTTAGT AATCCAGAAA 1237
193 ATTTGATTTT GTTCTAAAGT TCATTATGCA AAGATGTCAC CAACAGACTT 1287
194 CTGACTGCAT GGTGAACTTT CATATGATAC ATAGGATTAC ACTTGTACCT 1337
195 GTTAAAAATA AAAGTTTGAC TTGCATAC 1365

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C--> 198 (2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 4698 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: genomic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

```

207 ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT 50
208 GAAGATCCTG ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT 100
209 CAGCCAATGA GCTTACTGTT CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG 150
210 AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG CTTGTGAATT TGTACCCTTT 200
211 CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC CCCCCTCCCA 250
212 CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT 300
213 AGAACTCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTT GCTCTCCAG 350
214 CATGCATTGT GTCAACGCCA TTGCACTGAG CTGGTCGAAG AAGTAAGCCG 400
215 CTAGCTTGCG ACTCTACTCT TATCTTAACT TAGCTCGGCT TCCTGCTGGT 450
216 ACCCTTTGTG CC 462
217 ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA 504
218 GGT GGT GAC GGT GAT GGG AAT AGG TGC AAT TTA TTG CAC CGG 546
219 TAC TCC CTG GAA GAA ATT CTG CCT TAT CTA GGG TGG CTG GTC 588
220 TTC GCT GTT GTC ACA ACA AGT TTT CTG GCG CTC CAG ATG TTC 630
221 ATA GAC GCC CTT TAT GAG GAG CAG TAT GAA AGG GAT GTG GCC 672
222 TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC TCT GTC GAT GAG 714
223 GAT GAA GAC GAT GAG GAT GAT GAG GAT GAC TAC TAC GAC GAC 756
224 GAG GAC GAC GAC GAC GAT GCC TTC TAT GAT GAT GAG GAT GAT 798
225 GAG GAA GAA GAA TTG GAG AAC CTG ATG GAT GAT GAA TCA GAA 840
226 GAT GAG GCC GAA GAA GAG ATG AGC GTG GAA ATG GGT GCC GGA 882

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RAW SEQUENCE LISTING

DATE: 11/15/2006

PATENT APPLICATION: US/09/579,543A

TIME: 16:37:06

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11152006\I579543A.raw

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227 GCT GAG GAA ATG GGT GCT GGC GCT AAC TGT GCC T 916
228 GTGAGTAACC CGTGGTCTTT ACTCTAGATT CAGGTGGGGT GCATTCTTTA 966
229 CTCTTGCCCA CATCTGTAGT AAAGACCACA TTTTGGTTGG GGGTCATTGC 1016
230 TGGAGCCATT CCTGGCTCTC CTGTCCACGC CTATCCCCGC TCCTCCCATC 1066
231 CCCCACCTCT TGCTCCGCTC TCTTTCCTTT TCCCACCTTG CCTCTGGAGC 1116
232 TTCAGTCCAT CCTGCTCTGC TCCCTTTCCC CTTTGCTCTC CTTGCTCCCC 1166
233 TCCCCCTCGG CTCAACTTTT CGTGCCTTCT GCTCTCTGAT CCCCACCCTC 1216
234 TTCAGGCTTC CCCATTTGCT CCTCTCCCGA AACCCCTCCCC TTCCTGTTCC 1266
235 CCTTTTCGCG CCTTTTCTTT CCTGCTCCCC TCCCCCTCCC TATTTACCTT 1316
236 TCACCAGCTT TGCTCTCCCT GCTCCCCCTCC CCCTTTTGCA CCTTTTCTTT 1366
237 TCCTGCTCCC CTCCCCCTCC CCTCCCTGTT TACCCTTCAC CGCTTTTCCT 1416
238 CTACCTGCTT CCCTCCCCCT TGCTGCTCCC TCCCTAATTG CATTTTCGGG 1466
239 TGCTCCTCCC TCCCCCTCCC CCTCCCTCCC TATTTGCATT TTCGGGTGCT 1516
240 CCTCCCTCCC CCTCCCCAGG CCTTTTCTTT TTTTTTTTTT TTTTTTTTTT 1566
241 TTGGTTTTTC GAGACAGGGT TTCTCTTTGT ATCCCTGGCT GTCTGTCGAC 1616
242 TCACTCTGTA GACCAGGCTG GCCTCAAAC CAGAAATCTG CCTGCCTCTG 1666
243 CCTCCCAAAT GCTGGGATTA AAGGCTTGCA CCAGGACTGC CCCAGTGCAG 1716
244 GCCTTTCTTT TTTCTCCTCT CTGGTCTCCC TAATCCCTTT TCTGCATGTT 1766
245 AACTCCCTTT TTGGCACCTT TCCTTTACAG GACCCCTCC CCCTCCCTGT 1816
246 TTCCCTTCCG GCACCCCTTC TAGCCCTGCT CTGTTCCCTC TCCCTGCTCC 1866
247 CCTCCCCCTC TTTGCTCGAC TTTTAGCAGC CTTACCTCTC CTGCTTTTCT 1916
248 GCCCCGTTCC CCTTTTTTGT GCCTTTCTCT CTGGCTCCCC TCCACCTTCC 1966
249 AGCTCACCTT TTTGTTTGTG TGGTTGTTTG GTTGTTTGGT TTGCTTTTTT 2016
250 TTTTTTTTTT GCACCTTGTT TTCCAAGATC CCCCTCCCC TCCGGCTTCC 2066
251 CCTCTGTGTG CCTTTCCTGT TCCCTCCCC TCGCTGGCTC CCCCTCCCTT 2116
252 TCTGCCTTTC CTGTCCCTGC TCCCTTCTCT GCTAACCTTT TAATGCCTTT 2166
253 CTTTTCTAGA CTCCCCCTC CAGGCTTGCT GTTTGCTTCT GTGCACTTTT 2216
254 CCTGACCCTG CTCCCCCTCC CCTCCCAGCT CCCCCCTCTT TTCCACCTC 2266
255 CCTTCTCCA GCCTGTCACC CCTCCTTCTC TCCTCTCTGT TTCTCCACT 2316
256 TCCTGCTTCC TTTACCCCTT CCCTCCTCC ACTCTCCTCC CTGCTGCTG 2366
257 GACTTCTCT ATCAGCGCCC AGTTCCCTGC AGTCCTGGAG TCTTTCCTGC 2416
258 CTCTCTGTCC ATCACTTCCC CCTAGTTTCA CTTCCCTTTC ACTCTCCCT 2466
259 ATGTGTCTCT CTTCTATCT ATCCCTTCTT TTCTGTCCCC TCTCCTCTGT 2516
260 CCATCACCTC TCTCCTCCCT TCCCTTCTCT CTCTCTTCCA TTTTCTTCCA 2566
261 CCTGCTTCTT TACCCTGCCT CTCCCATGCT CCTCTTACCT TTATGCCCAT 2616
262 TCCATGTCCC CTCTCAATTC CCTGTCCCAT TGTGCTCCCT CACATCTTCC 2666
263 ATTTCCCTCT TTCTCCCTTA GCCTCTTCTT CCTCTTCTCT TGTATCTCCC 2716
264 TTCCCTTTGC TTCTCCCTCC TCCTTTCCCC TTCCCTATG CCCTCTACTC 2766
265 TACTTGATCT TCTCTCCTCT CCACATACCC TTTTTCCTTT CCACCCTGCC 2816
266 CTTTGTCCCC AGACCCTACA GTATCCTGTG CACAGGAAGT GGGAGGTGCC 2866
267 ATCAACAACA AGGAGGCAAG AAACAGAGCA AAATCCCAA ATCAGCAGGA 2916
268 AAGGCTGGAT GAAAATAAGG CCAGGTTCTG AGGACAGCTG GAATCTAGCC 2966
269 AAGTGGCTCC TATAACCCTA AGTACCAAGG GAGAAAGTGA TGGTGAAGTT 3016
270 CTTGATCCTT GCTGCTTCTT TTACATATGT TGGCACATCT TTCTCAAATG 3066
271 CAGGCCATGC TCCATGCTTG GCGCTTGCTC AGCGTGGTTA AGTAATGGGA 3116
272 GAATCTGAAA ACTAGGGGCC AGTGGTTTGT TTTGGGGACA AATTAGCACG 3166
273 TAGTGATATT TCCCCCTAAA AATTATAACA AACAGATTCA TGATTTGAGA 3216
274 TCCTTCTACA GGTGAGAAGT GGAAAAATTG TCACTATGAA GTTCTTTTTA 3266
275 GGCTAAAGAT ACTTGAAC ATAGAAGCGT TGTTAAATA CTGCTTCTT 3316

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/579,543A

DATE: 11/15/2006

TIME: 16:37:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11152006\I579543A.raw

L:3 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:]
L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:38 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:42 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:46 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:50 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:54 M:220 C: Keyword misspelled or invalid format, [(viii) ATTORNEY/AGENT INFORMATION:]
L:59 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]
L:65 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:84 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:139 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:154 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:198 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:309 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:321 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:381 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:513 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:614 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:641 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:685 M:111 C: (47) String data converted to upper case,
L:692 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:706 M:111 C: (47) String data converted to upper case,
M:111 Repeated in SeqNo=12
L:726 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:795 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:865 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:902 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:962 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1024 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1043 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1097 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1151 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1197 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1231 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1275 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1337 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1392 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1404 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1415 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1426 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:1437 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]

**Raw Sequence Listing before editing
(for reference only)**



IFW16

RAW SEQUENCE LISTING

DATE: 11/15/2006

PATENT APPLICATION: US/09/579,543A

TIME: 11:40:17

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\11152006\I579543A.raw

see pp 1,3
**Does Not Comply
 Corrected Diskette Needed**

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:
 C--> 3 (i) APPLICANT: Gaugler, B*atrice; Van den Eynde, Benoit; van der Bruggen,
 4 Pierre; Boon-Falleur, Thierry
 6 (ii) TITLE OF INVENTION: Isolated Nucleic Acid Molecules Coding For Tumor
 7 Rejection Antigen Precursor Mage-3 And Uses Thereof
 9 (iii) NUMBER OF SEQUENCES: 30
 11 (iv) CORRESPONDENCE ADDRESS:
 12 (A) ADDRESSEE: Fulbright & Jaworski L.L.P.
 13 (B) STREET: 666 Fifth Avenue
 14 (C) CITY: New York City
 15 ~~(D) STATE: New York~~ (E) COUNTRY: USA
 16 (F) ZIP: 10103
 18 (v) COMPUTER READABLE FORM:
 19 (A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 20 (B) COMPUTER: IBM
 21 (C) OPERATING SYSTEM: PC-DOS
 22 (D) SOFTWARE: Wordperfect
 24 (vi) CURRENT APPLICATION DATA:
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 C--> 53 (viii) ATTORNEY/AGENT INFORMATION:
 54 (A) NAME: Hanson, Norman D.
 55 (B) REGISTRATION NUMBER: 30,946
 56 (C) REFERENCE/DOCKET NUMBER: LUD 5353.5 DIV (10016355)
 C--> 58 (ix) TELECOMMUNICATION INFORMATION:
 59 (A) TELEPHONE: (212) 688-9200
 60 (B) TELEFAX: (212) 838-3884

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/579,543A

DATE: 11/15/2006

TIME: 16:26:28

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11152006\I579543A.raw

C--> 65 (2) INFORMATION FOR SEQ ID NO: 1:

66 (i) SEQUENCE CHARACTERISTICS:

67 (A) LENGTH: 462 base pairs

68 (B) TYPE: nucleic acid

69 (C) STRANDEDNESS: single

70 (D) TOPOLOGY: linear

71 (ii) MOLECULE TYPE: genomic DNA

72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

```

74 ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT GAAGATCCTG      60
75 ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT CAGCCAATGA GCTTACTGTT      120
76 CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG      180
77 CTTGTGAATT TGTACCCTTT CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC      240
78 CCCCCTCCCA CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT      300
79 AGAAGTCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTT GCTCTCCAG CATGCATTGT      360
80 GTCAACGCCA TTGCACTGAG CTGGTCGAAG AAGTAAGCCG CTAGCTTGCG ACTCTACTCT      420
81 TATCTTAAC TTAGCTCGGCT TCCTGCTGGT ACCCTTTGTG CC                        462

```

C--> 84 (2) INFORMATION FOR SEQ ID NO: 2:

85 (i) SEQUENCE CHARACTERISTICS:

86 (A) LENGTH: 675 base pairs

87 (B) TYPE: nucleic acid

88 (C) STRANDEDNESS: single

89 (D) TOPOLOGY: linear

90 (ii) MOLECULE TYPE: genomic DNA

91 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

```

93 ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA GGT GGT      48
94 Met Ser Asp Asn Lys Lys Pro Asp Lys Ala His Ser Gly Ser Gly Gly
95           5              10              15
96 GAC GGT GAT GGG AAT AGG TGC AAT TTA TTG CAC CGG TAC TCC CTG GAA      96
97 Asp Gly Asp Gly Asn Arg Cys Asn Leu Leu His Arg Tyr Ser Leu Glu
98           20              25              30
99 GAA ATT CTG CCT TAT CTA GGG TGG CTG GTC TTC GCT GTT GTC ACA ACA     144
100 Glu Ile Leu Pro Tyr Leu Gly Trp Leu Val Phe Ala Val Val Thr Thr
101           35              40              45
102 AGT TTT CTG GCG CTC CAG ATG TTC ATA GAC GCC CTT TAT GAG GAG CAG     192
103 Ser Phe Leu Ala Leu Gln Met Phe Ile Asp Ala Leu Tyr Glu Glu Gln
104           50              55              60
105 TAT GAA AGG GAT GTG GCC TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC     240
106 Tyr Glu Arg Asp Val Ala Trp Ile Ala Arg Gln Ser Lys Arg Met Ser
107           65              70              75              80
108 TCT GTC GAT GAG GAT GAA GAC GAT GAG GAT GAT GAG GAT GAC TAC TAC     288
109 Ser Val Asp Glu Asp Glu Asp Asp Glu Asp Asp Glu Asp Asp Tyr Tyr
110           85              90              95
111 GAC GAC GAG GAC GAC GAC GAC GAT GCC TTC TAT GAT GAT GAG GAT GAT     336
112 Asp Asp Glu Asp Asp Asp Asp Ala Phe Tyr Asp Asp Glu Asp Asp
113           100             105             110
114 GAG GAA GAA GAA TTG GAG AAC CTG ATG GAT GAT GAA TCA GAA GAT GAG     384
115 Glu Glu Glu Glu Leu Glu Asn Leu Met Asp Asp Glu Ser Glu Asp Glu
116           115             120             125
117 GCC GAA GAA GAG ATG AGC GTG GAA ATG GGT GCC GGA GCT GAG GAA ATG     432

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RAW SEQUENCE LISTING

DATE: 11/15/2006

PATENT APPLICATION: US/09/579,543A

TIME: 16:26:28

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11152006\I579543A.raw

```

118 Ala Glu Glu Glu Met Ser Val Glu Met Gly Ala Gly Ala Glu Glu Met
119      130                      135                      140
120 GGT GCT GGC GCT AAC TGT GCC TGT GTT CCT GGC CAT CAT TTA AGG AAG 480
121 Gly Ala Gly Ala Asn Cys Ala Cys Val Pro Gly His His Leu Arg Lys
122 145                      150                      155                      160
123 AAT GAA GTG AAG TGT AGG ATG ATT TAT TTC TTC CAC GAC CCT AAT TTC 528
124 Asn Glu Val Lys Cys Arg Met Ile Tyr Phe Phe His Asp Pro Asn Phe
125                      165                      170                      175
126 CTG GTG TCT ATA CCA GTG AAC CCT AAG GAA CAA ATG GAG TGT AGG TGT 576
127 Leu Val Ser Ile Pro Val Asn Pro Lys Glu Gln Met Glu Cys Arg Cys
128                      180                      185                      190
129 GAA AAT GCT GAT GAA GAG GTT GCA ATG GAA GAG GAA GAA GAA GAA GAG 624
130 Glu Asn Ala Asp Glu Glu Val Ala Met Glu Glu Glu Glu Glu Glu Glu
W--> 131      195                      200      210 205
132 GAG GAG GAG GAG GAA GAG GAA ATG GGA AAC CCG GAT GGC TTC TCA CCT 672
133 Glu Glu Glu Glu Glu Glu Glu Met Gly Asn Pro Asp Gly Phe Ser Pro
W--> 134 220 210      225 215      230 220      235
136 TAG 675
C--> 139 (2) INFORMATION FOR SEQ ID NO: 3:
140      (i) SEQUENCE CHARACTERISTICS:
141          (A) LENGTH: 228 base pairs
142          (B) TYPE: nucleic acid
143          (C) STRANDEDNESS: single
144          (D) TOPOLOGY: linear
145      (ii) MOLECULE TYPE: genomic DNA
146      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
148 GCATGCAGTT GCAAAGCCCA GAAGAAAGAA ATGGACAGCG GAAGAAGTGG TTGTTTTTTT 60
149 TTCCCCTTCA TTAATTTTCT AGTTTTTAGT AATCCAGAAA ATTTGATTTT GTTCTAAAGT 120
150 TCATTATGCA AAGATGTCAC CAACAGACTT CTGACTGCAT GGTGAACCTT CATATGATAC 180
151 ATAGGATTAC ACTTGTACCT GTTAAAAATA AAAGTTTGAC TTGCATAC 228
C--> 154 (2) INFORMATION FOR SEQ ID NO: 4:
155      (i) SEQUENCE CHARACTERISTICS:
156          (A) LENGTH: 1365 base pairs
157          (B) TYPE: nucleic acid
158          (C) STRANDEDNESS: single
159          (D) TOPOLOGY: linear
160      (ii) MOLECULE TYPE: genomic DNA
161      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
163 ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT 50
164 GAAGATCCTG ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT 100
165 CAGCCAATGA GCTTACTGTT CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG 150
166 AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG CTTGTGAATT TGTACCCTTT 200
167 CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC CCCCCTCCCA 250
168 CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT 300
169 AGAACTCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTT GCTCTCCAG 350
170 CATGCATTGT GTCAACGCCA TTGCACTGAG CTGGTCGAAG AAGTAAGCCG 400
171 CTAGCTTGCG ACTCTACTCT TATCTTAACT TAGCTCGGCT TCCTGCTGGT 450
172 ACCCTTTGTG CC 462
174 ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA 504

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*E fix
numbering*

RAW SEQUENCE LISTING

DATE: 11/15/2006

PATENT APPLICATION: US/09/579,543A

TIME: 11:40:17

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\11152006\I579543A.raw

ERRORED SEQUENCES

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/579,543A

DATE: 11/15/2006

TIME: 11:40:18

Input Set : A:\PTO.SS.txt

Output Set: N:\CRF4\11152006\I579543A.raw

L:3 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:]
 L:25 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
 L:26 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
 L:37 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
 L:41 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
 L:45 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
 L:49 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
 L:53 M:220 C: Keyword misspelled or invalid format, [(viii) ATTORNEY/AGENT INFORMATION:]
 L:58 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]
 L:0 M:200 E: Mandatory Header Field missing, [(E) COUNTRY:] of (1)(iv)
 L:64 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:83 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:130 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
 L:133 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
 L:138 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:153 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:197 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:308 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:320 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:380 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:512 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:613 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:640 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:684 M:111 C: (47) String data converted to upper case,
 L:691 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:705 M:111 C: (47) String data converted to upper case,
 M:111 Repeated in SeqNo=12
 L:725 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:794 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:864 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:901 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:961 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1023 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1042 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1096 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1150 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1196 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1230 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1274 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1336 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1391 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1403 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1414 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1425 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:1436 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]